

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08039

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ A61K45/00, 31/437, 31/445, A61P9/00, 9/06, 9/10, 9/12, 9/14, 13/12, 25/06, 43/00, C07D471/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ A61K45/00, 31/437, 31/445, A61P9/00, 9/06, 9/10, 9/12, 9/14, 13/12, 25/06, 43/00, C07D471/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

MEDLINE (STN), CAPLUS (STN), EMBASE (STN), BIOSIS (STN), REGISTRY (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X Y | WO 01/69252 A1 (THE GENERAL HOSPITAL CORP.), 20 September, 2001 (20.09.01), Full text & JP 2001-261575 A & US 2001/0041688 A1 | 1-5, 8, 9 6, 7 |
| Y | WO 01/98301 A1 (Japan Tobacco Inc.), 27 December, 2001 (27.12.01), Full text & AU 200164313 A | 1-9 |
| A | OKAZAKI, H., 'Molecular cloning of a novel putative G protein-coupled receptor expressed in the cardiovascular system.', Biochem. Biophys. Res. Commun., 15 February, 1993 (15.02.93), Vol.190, No.3, p.1104-9 | 1-9 |

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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|---|--|
| * Special categories of cited documents: | "I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier document but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international search
25 September, 2003 (25.09.03)

Date of mailing of the international search report
14 October, 2003 (14.10.03)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/08039

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| A | US 3542793 A (Ciba Corp.), 24 November, 1970 (24.11.70), Full text & FR 1509257 A | 6, 7 |
| A | US 4612318 A (LEPETIT SPA), 16 September, 1986 (16.09.86), Full text & EP 0104522 A2 & JP 59-089679 A | 6, 7 |
| P, A | OHMORI, T., 'Sphingosine 1-phosphate induces contraction of coronary artery smooth muscle cells via S1P ₂ ', Cardiovasc.Res., 01 April, 2003 (01.04. 03), Vol.58, No.1, p.170-7 | 1-9 |
| E, X | WO 03/051876 A1 (Japan Tobacco Inc.), 26 June, 2003 (26.06.03), Full text (Family: none) | 1-9 |
| A | WO 01/03739 A1 (Ono Pharmaceutical Co., Ltd.), 18 January, 2001 (18.01.01), Full text & EP 1195165 A1 | 1-9 |

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NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

From the INTERNATIONAL BUREAU

To:

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| Date of mailing (day/month/year) 28 August 2003 (28.08.03) | |
| Applicant's or agent's file reference ONF-4571PCT | IMPORTANT NOTIFICATION |
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| International publication date (day/month/year) Not yet published | Priority date (day/month/year) 26 June 2002 (26.06.02) |
| Applicant ONO PHARMACEUTICAL CO., LTD. et al | |

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

| <u>Priority date</u> | <u>Priority application No.</u> | <u>Country or regional Office or PCT receiving Office</u> | <u>Date of receipt of priority document</u> |
|-------------------------|---------------------------------|---|---|
| 26 June 2002 (26.06.02) | 2002-185546 | JP | 18 July 2003 (18.07.03) |

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| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.90.90 | Authorized officer Hitomi ODAKA (Fax 338 9090) Telephone No. (41-22) 338 9417 |
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